

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION**

ORDER NO. R2-2003-0055

**UPDATED WASTE DISCHARGE REQUIREMENTS AND
RESCISSION OF ORDER NO. 87-061 FOR:**

**CITY AND COUNTY OF SAN FRANCISCO
SAN FRANCISCO PORT COMMISSION
PIER 94 CLASS III LANDFILL
SAN FRANCISCO, SAN FRANCISCO COUNTY**

The California Regional Water Quality Control Board, San Francisco Bay Region, (hereinafter called the Board), finds that:

DISCHARGERS AND LOCATION

1. Owner, operator, and dischargers named: The City and County of San Francisco are the owners of the inactive Pier 94 Class III Landfill. San Francisco Port Commission is the manager of the landfill property. The City and County of San Francisco and the San Francisco Port Commission are hereinafter referred to as the Dischargers.
2. Landfill location and description: The Pier 94 Landfill is located along the western shoreline of San Francisco Bay east of Illinois Street and Cargo Way in San Francisco (refer to Figure 1, Site Location Map). The landfill consists of 14 acres of the upland portion of the Pier 94 site. The landfill was constructed by filling within a perimeter soil dike constructed on wetlands of San Francisco Bay. The northern and western portions of the landfill are unpaved and utilized for bulk aggregate processing and distribution. The surrounding areas consist primarily of industrial, maritime, and commercial facilities.

PURPOSE OF ORDER UPDATE

3. Update of Waste Discharge Requirements: This order updates Waste Discharge Requirements to include general provisions and tasks necessary to: 1) address a petroleum hydrocarbon release; 2) insure that post-closure landfill development does not

impact water quality; 3) insure that surface water runoff improvements and proposed marsh restoration does not impact water quality; and 4) to bring the landfill into compliance with the appropriate portions of Title 27 of the California Code of Regulations (formerly contained in Chapter 15, Title 23), referred to hereinafter as Title 27. This Order also rescinds previous Waste Discharge Requirements Order No. 87-061.

SITE DESCRIPTION

4. Waste placement: Pier 94 Landfill accepted waste in the 1960's and 1970's. Materials disposed at the site include clean soil and rock, dredge spoils, construction debris, and tires. The 1989 Solid Waste Assessment Test (SWAT) report indicates that relatively minor amounts of household waste including appliances, furniture, and possibly hazardous materials were also disposed at the landfill; however, investigations and monitoring show that chemicals commonly associated with such waste were not present in soil or groundwater at the landfill. The total volume of material placed into the landfill is approximately 11 million cubic yards. Waste thickness is approximately 9 to 29 feet and extends as much as 10 feet below sea level.
5. Landfill containment controls: Materials disposed at the landfill were placed into the San Francisco Bay within perimeter soil dikes. No bottom liner was constructed prior to placement of waste. A two to five foot thick layer of clean soil was placed on top of the waste materials in 1977; however, currently waste materials are exposed in some locations at the ground surface. The current grade of waste materials and the soil cap is sufficient to prevent significant ponding; however, the grade is insufficient for maximizing runoff. No leachate containment system has been installed at the landfill.

REGULATORY HISTORY

6. Previous Orders: The Regional Board adopted three prior orders for the landfill between 1972 and 1987. The orders include:
 - Order No. 72-9 - March 28, 1972, Waste Discharge Requirements permitting disposal at Pier 94
 - Order No. 75-35 - June 17, 1975, Amendment to Order No. 72-9
 - Order No. 87-061-15 - June 18, 1987, Update of Order 75-35

SITE GEOLOGIC AND HYDROGEOLOGIC SETTING

7. Regional hydrogeologic conditions: The site is located within the Coastal Range geomorphic province characterized by northwest-trending ridges and valleys that generally parallel the major geologic structures and fault systems. The area of Pier 94 is underlain, from oldest to youngest, by Franciscan Formation bedrock, Old Bay Clay, and younger Bay Mud. The Bay Mud directly underlies waste material at the Pier 94 Landfill. The Bay Mud consists of soft unconsolidated marine clay.
8. Local groundwater conditions: Groundwater beneath the landfill generally flows north-northwest toward the Bay and Islais Creek Channel. Shallow groundwater is encountered at depths of approximately 3 ½ feet above mean sea level. Monitoring of groundwater wells indicate that shallow groundwater is brackish and tidally influenced. The primary sources of recharge to the shallow groundwater units are through direct infiltration within the landfill and in areas upgradient of the landfill. Runoff from the landfill also drains via sheet flow toward San Francisco Bay and Islais Creek. The site is underlain by low-permeability Bay Mud.
9. Geologic structure and faulting: Within the mountain ranges on both sides of the San Francisco Bay are well-defined active earthquake faults. The major active fault zones in the region include the San Andreas, Hayward, and Calaveras fault zones. The site is approximately eight miles northeast of the San Andreas fault zone, and approximately 13 and 15 miles southwest of the Hayward and Calaveras fault zones, respectively.

SITE CONTAMINATION AND WATER QUALITY

10. Contamination originating at landfill: Groundwater beneath the landfill and the surrounding bay waters have been sampled on a quarterly to semiannual basis since 1989. The current monitoring indicates that the landfill materials have not impacted groundwater or surface water. No VOCs and SVOCs have been detected in groundwater and surface water, and metals concentrations are below groundwater and surface water criteria. However, total petroleum hydrocarbons as diesel (TPHd) have been detected in groundwater at concentrations up to 6040 ppb TPH in the area of an aboveground fuel storage tank formerly located at the aggregate processing facility at the landfill. Provision C.3 of this Order requires additional evaluation and monitoring of the petroleum hydrocarbon impacts.

11. Corrective action measures: The 1989 SWAT report and subsequent monitoring indicates that the landfilled materials are generally inert, are unlikely to contain significant quantities of hazardous waste, and have not represented a threat to water quality. However, the possibility of future groundwater and surface water impacts needs to be minimized by reducing the infiltration of surface water and by containing exposed waste materials. In addition, the full impacts of the TPHd contamination have not been assessed or remediated.
12. Proposed future landfill development: Currently the Dischargers utilize approximately 11 of the 14 acres of the Pier 94 landfill area for sand and aggregate supply and concrete production. The Dischargers propose to pave another 4.6 acres during construction of a concrete batch plant. Stormwater and process water at the plant will be captured and reused. In addition, the Dischargers are evaluating the potential of enhancing a salt marsh in the area east of the landfill by incorporating natural systems-based storm water runoff features in future development projects. Provision C.4 of this Order requires submittal of technical reports that address potential water quality impacts associated with future site development. Completion of additional tasks is contingent upon the final site redevelopment design.
13. Board Resolution No. 89-39: Board Resolution 89-39, "Sources of Drinking Water," defines potential sources of drinking water to include all groundwater in the region, with limited exceptions for areas containing Total Dissolved Solids (TDS) greater than 3000 mg/l, high background contaminant levels, or those areas with a low-yield. Shallow groundwater beneath portions of the landfill contain high chloride and total organic carbon levels, and generally exceeds 3000 mg/l TDS. Therefore, the shallow aquifer zone in at the landfill meets the exemption criteria of the State Water Resources Control Board's Sources of Drinking Water Policy. There is no current use of the site's groundwater, nor any anticipated plans for its use.

BASIN PLAN

14. The Regional Board adopted a revised Water Quality Plan for the San Francisco Bay Basin (Basin Plan) on June 21, 1995. This updated and consolidated plan represents the Board's master water quality control planning document. The State Water Resource Control Board and the Office of the Administrative Law approved the revised Basin Plan on July 20 and November 13, respectively, of 1995. A summary of regulatory provisions is contained in Title 23 of the California Code of Regulations at Section 3912. The Basin Plan defines beneficial uses and water quality objectives for waters of the State, including surface waters and groundwaters.

15. The beneficial uses of groundwater beneath the landfill include:
 - a. Industrial process supply
 - b. Industrial service supply
16. The beneficial uses of Islais Creek and San Francisco Bay include:
 - a. Wildlife habitat
 - b. Water contact recreation
 - c. Non-contact water recreation
 - d. Commercial and sport fishing
 - e. Fish habitat
 - f. Fish migration

MONITORING PROGRAMS

17. Groundwater Monitoring – Eight groundwater monitoring wells are located at the landfill perimeter and in interior areas (GW1-GW-8). Wells GW-2, GW-3, GW-4, and GW-5 are in the unpaved and downgradient portions of the landfill. Wells GW-1, GW-6, and GW-7, and GW-8 are in the upgradient and paved portions of the landfill and provide background water quality data. The monitoring wells indicate that groundwater at the site is not impacted by landfill materials, but by a diesel fuel release associated with an aboveground fuel storage tank.
18. Surface Water Monitoring –Surface water monitoring is conducted at two stations in San Francisco Bay (SW1 - SW2). Monitoring indicates that San Francisco Bay has not been impacted by the Pier 94 Landfill.

CALIFORNIA ENVIRONMENTAL QUALITY ACT

19. CEQA: This action is an order to enforce the laws and regulations administered by the Board. As such, this action is categorically exempt from the provisions of the California Environmental Quality Act (CEQA) pursuant to Section 15301 of the Resources Agency Guidelines.
20. Public notice: The Board has notified the Dischargers and interested agencies and persons of its intent to adopt revised, updated Waste Discharge Requirements for the Dischargers and has provided them with an opportunity for a public hearing and an opportunity to submit their written views and recommendations.

21. Public meeting: The Board, in a public meeting heard and considered all comments pertaining to the discharge.

IT IS HEREBY ORDERED that the Dischargers, their agents, successors and assigns shall meet the applicable provisions contained in Title 27, Division 2, Subdivision 1 of the California Code of Regulations and Division 7 of the California Water Code and shall comply with the following:

A. PROHIBITIONS

1. The relocation of wastes to or from waste management units shall not create a condition of pollution or nuisance as defined in Section 13050 (l) and (m) of the California Water Code. Any relocated waste shall not be placed in or allowed to contact ponded water from any source whatsoever. Wastes shall not be relocated to any location where they can be discharged into waters of the State or of the United States.
2. The creation of any new waste management units is prohibited without prior Regional Board approval.
3. The Dischargers shall not excavate within or reconfigure any existing waste management unit without prior Regional Board approval.
4. No additional waste shall be deposited or stored at this site.

B. SPECIFICATIONS

1. All reports pursuant to this order shall be prepared under the supervision of a California registered civil engineer, California registered geologist or certified engineering geologist.
2. The site shall be protected from any washout or erosion of wastes or cover material and from inundation that could occur as a result of a 100-year, 24-hour precipitation event, or as the result of flooding with a return frequency of 100 years.
3. Best management practices shall be employed to minimize contact with and percolation of surface drainage from tributary areas and internal site drainage through wastes during the life of the site.
4. The Dischargers shall analyze the samples from any groundwater or leachate wells as outlined in the Discharge Monitoring Program (Attachment A).

5. In the event of a release of a constituent of concern beyond the Point of Compliance (Section 20405, Title 27), the site begins a Compliance Period (Section 20410, Title 27). During the Compliance Period, the Dischargers shall perform an Evaluation Monitoring Program and a Corrective Action Program.
6. The Dischargers shall install any reasonable additional groundwater and leachate monitoring devices required to fulfill the terms of any future Discharge Monitoring Program issued by the Executive Officer.
7. The Dischargers shall maintain all devices or designed features installed in accordance with this Order, such that they continue to operate as intended without interruption.
8. The Regional Board shall be notified immediately of any failure occurring in the waste management unit. Any failure that threatens the integrity of containment features or the landfill shall be promptly corrected after approval of the method and schedule by the Executive Officer.

C. PROVISIONS

1. The Dischargers shall comply immediately, or as prescribed by the time schedule below, with all Prohibitions, Specifications and Provisions of this Order. All required submittals must be acceptable to the Executive Officer. The Dischargers must also comply with all conditions of these Waste Discharge Requirements. Violations may result in enforcement actions, including Regional Board orders or court orders requiring corrective action or imposing civil monetary liability, or in modification or revocation of these waste discharge requirements by the Regional Board. [CWC Section 13261, 13263, 13265, 13267, 13268, 13300, 13301, 13304, 13340, 13350].
2. All technical and monitoring reports required pursuant to this Order are being requested pursuant to Section 13267 of the California Water Code. Failure to submit reports in accordance with schedules established by this Order or failure to submit a report of sufficient technical quality acceptable to the Executive Officer may subject the Dischargers to enforcement action pursuant to Section 13268 of the California Water Code.
3. **IMPLEMENTATION OF WORKPLAN FOR ADDRESSING TPH CONTAMINATION**

COMPLIANCE DATE: July 31, 2004

The Dischargers shall prepare and submit a technical report, acceptable to the Executive Officer, which documents the implementation of the Discharger's March 19, 2003 workplan for investigation and monitoring in the area of the aboveground storage tank previously located at the landfill.

4. **PROPOSED CHANGES TO POST-CLOSURE DEVELOPMENT DESIGN**

COMPLIANCE DATE: 90 days prior to any material change in site operations or features

The Dischargers shall prepare and submit a technical report, acceptable to the Executive Officer, describing any proposed changes to site development, redevelopment projects, site features, or site operations for the landfill, including wetland enhancements which may significantly affect water quality. The technical report shall describe the project, identify key changes to the design which may impact the landfill, specify components of the design necessary to maintain integrity of the landfill cap and prevent water quality impacts, and verify that water quality impacts are not occurring. No material changes to the site shall be made without approval by the Executive Officer.

5. **ANNUAL MONITORING REPORT**

COMPLIANCE DATE: January 31 of each year

The Dischargers shall submit an Annual Monitoring Report, acceptable to the Executive Officer, by January 31 of each year in accordance with the attached Discharge Monitoring Program (Attachment A). The annual report to the Board shall cover the previous calendar year as described in Part A of the Monitoring Program.

6. **ANNUAL MAINTENANCE REPORT**

COMPLIANCE DATE: July 31 of each year

The Dischargers shall submit a technical report to the Board, acceptable to the Executive Officer, detailing the repair and maintenance activities that need to be completed prior to the commencement of the next rainy season (starting October 15 of each year). This letter report shall also include a schedule for repair and

maintenance activities, and a cost analysis detailing the anticipated expense for all repairs, maintenance and monitoring during the next 12 months. Repair and maintenance estimates shall be based on rainy season inspections conducted throughout the winter as required in the Discharge Monitoring Program.

7. STORMWATER CONTROL PLANS

COMPLIANCE DATE: October 15 of the year of construction or prior to construction if commencing between October 15 and May 15

For each proposed development greater than 5 acres in size, the Dischargers shall submit a Notice of Intent to the State Water Resources Control Board, prepare and submit a Storm Water Pollution Prevention Plan acceptable to the Executive Officer, and implement Best Management Practices (BMPs) for the control of storm water, in accordance with requirements specified in the State Water Resources Control Board General Permit for Storm Water Discharges Associated with Construction Activities (NPDES Permit No. CAS000002).

8. WELL INSTALLATION REPORT

COMPLIANCE DATE: 45 days following completion of well installation activities


The Dischargers shall submit a technical report, acceptable to the Executive Officer, that provides well construction details, geologic boring logs, and well development logs for all new wells installed as part of the present or future Discharge Monitoring Program (Attachment A).

9. The Dischargers shall maintain a copy of these waste discharge requirements and these requirements shall be available to operating personnel at the facility at all times [CWC Section 13263].
10. This Board considers the property owner(s) and site operator(s) to have responsibility for correcting any problems that arise in the future as a result of the waste discharged or related operations on their respective parcels which each owns or controls.
11. The Dischargers shall permit the Regional Board or its authorized representative, upon presentation of credentials:
 - a. Immediate entry upon the premises on which wastes are located or in which any required records are kept.
 - b. Access to copy any records required under the terms and conditions of this order.
 - c. Inspection of any treatment equipment, monitoring equipment, or monitoring methods required by this order or by any other California State Agency.
 - d. Sampling of any discharge or groundwater governed by this order.

12. These requirements do not authorize commission of any act causing injury to the property of another or of the public; do not convey any property rights; do not remove liability under federal, state or local laws; and do not authorize the discharge of wastes.
13. In the event of any change in control/operator or ownership of land or parcel of land, or waste discharge facilities presently owned or controlled by the Dischargers, the Dischargers shall notify the succeeding owner or operator of the existence of this Order by letter, a copy of which shall be immediately forwarded to this office. The Dischargers must notify the Executive Officer, in writing at least 30 days in advance of any proposed transfer of this Order's responsibility and coverage to a new discharger. The notice must include a written agreement between the existing and new dischargers containing a specific date for the transfer of this order's responsibility and coverage between the current Dischargers and the new discharger. This agreement shall include an acknowledgment that the existing Dischargers are liable for violations up to the transfer date and that the new dischargers are liable from the transfer date on. [CWC Sections 13267 and 13263]. The request must contain the requesting entity's full legal name, the address and telephone number of the persons responsible for contact with the Board and statement. Failure to submit the request shall be considered a discharge without requirements, a violation of the California Water Code.
14. This Order is subject to Board review and updating, as necessary, to comply with changing State and Federal laws, regulations, policies, or guidelines; changes in the Board's Basin Plan; or changes in the discharge characteristics [CWC Section 13263].
15. Where the Dischargers become aware that it failed to submit any relevant facts in a Report of Waste Discharge or submitted incorrect information in a Report of Waste Discharge or in any report to the Regional Board, they shall promptly submit such facts or information [CWC Sections 13260 and 13267].
16. This Order does not convey any property rights of any sort or any exclusive privileges. The requirements prescribed herein do not authorize the commission of any act causing injury to persons or property, do not protect the Dischargers from their liability under Federal, State or local laws, nor do they create a vested right for the Dischargers to continue the waste discharge [CWC Section 13263(g)].
17. Provisions of these waste discharge requirements are severable. If any provision of these requirements is found invalid, the remainder of these requirements shall not be affected.

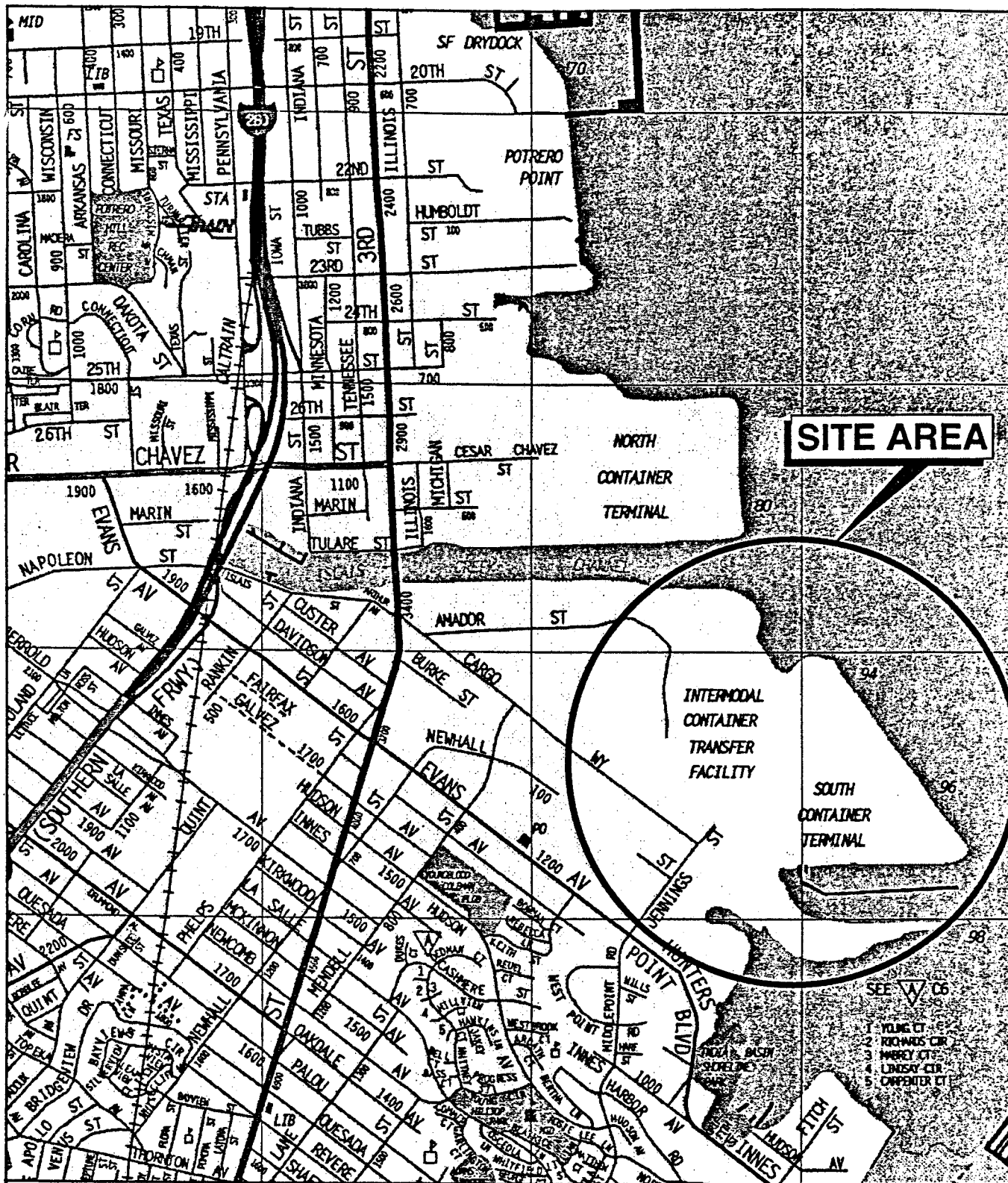
18. The Dischargers shall, at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the Dischargers to achieve compliance with conditions of this Order. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls including appropriate quality assurance procedures. This provision requires the operation of backup or auxiliary facilities or similar systems only when necessary to achieve compliance with the conditions of this order [CWC Section 13263(f)].
19. Except for a discharge which is in compliance with these waste discharge requirements, any person who, without regard to intent or negligence, causes or permits any hazardous substance or sewage to be discharged in or on any waters of the State, or discharged or deposited where it is, or probably will be, discharged in or on any waters of the State, shall, as soon as (a) that person has knowledge of the discharge, (b) notification is possible, and (c) notification can be provided without substantially impeding cleanup or other emergency measures, immediately notify the office of Emergency Services of the discharge in accordance with the spill reporting provision of the state toxic disaster contingency plan adopted pursuant to Article 3.7 (commencing with Section 8574.7) of Chapter 7 of Division 1 of Title 2 of the Government Code, and immediately notify the State Board or the appropriate Regional Board of the discharge. This provision does not require reporting of any discharge of less than a reportable quantity as provided for under subdivisions (f) and (g) of Section 13271 of the Water Code unless the Dischargers are in violation of a prohibition in the applicable water Quality Control Plan [CWC Section 13271(a)].
20. The Dischargers shall report any noncompliance that may endanger public health or the environment. Any such information shall be provided orally to the Executive Officer within 24 hours from the time the Dischargers become aware of the circumstances. A written submission shall also be provided within five days of the time the Dischargers become aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected; the anticipated time it is expected to continue and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. The Executive Officer, or an authorized representative, may waive the written report on a case-by-case basis if the oral report has been received within 24 hours [CWC Sections 13263 and 13267].
21. All monitoring instruments and devices used by the Dischargers to fulfill the prescribed monitoring program shall be properly maintained and calibrated as necessary to ensure their continued accuracy.
22. This Board's Order No. 87-061 is hereby rescinded.

I, Loretta K. Barsamian, Executive Officer, do hereby certify that the foregoing is a full, complete, and correct copy of an Order adopted by the California Regional Water Quality Control Board, San Francisco Bay Region, on June 18, 2003


Loretta K. Barsamian
Executive Officer

Figures: Figure 1 - Site Location Map

Attachment: Attachment A - Discharge Monitoring Program



Base map: The Thomas Guide
San Francisco County
1999



No scale

PIER 94
PORT OF SAN FRANCISCO
San Francisco, California

SITE LOCATION MAP

Treadwell&Rollb

Date 06/24/02

Project No. 3189.09

Figure 1

ATTACHMENT A

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
SAN FRANCISCO BAY REGION**

DISCHARGE MONITORING PROGRAM

FOR

**PIER 94 CLASS III LANDFILL
SAN FRANCISCO, SAN FRANCISCO COUNTY**

ORDER NO. R2-2003-0055

CONSISTS OF

PART A

AND

PART B

PART A

A. GENERAL

Reporting responsibilities of waste dischargers are specified in Sections 13225(a), 13267(b), 13383, and 13387(b) of the California Water Code and this Regional Board's Resolution No. 73-16. This Discharge Monitoring Program is issued in accordance with Title 27 of the California Code of Regulations.

The principal purposes of a discharge monitoring program are: (1) to document compliance with waste discharge requirements and prohibitions established by the Board, (2) to facilitate self-policing by the waste dischargers in the prevention and abatement of pollution arising from waste discharge, (3) to develop or assist in the development of standards of performance, and toxicity standards, (4) to assist the dischargers in complying with the requirements of Title 27.

The Dischargers are required to perform sampling, analyses, and observations of storm drain discharges per Section 20415 and per the general requirements specified in Section 20415(e) of Title 27.

B. SAMPLING AND ANALYTICAL METHODS

Sample collection, storage, and analyses shall be performed according to the most recent version of EPA Standard Methods and in accordance with an approved sampling and analysis plan.

Water and waste analysis shall be performed by a laboratory approved for these analyses by the State of California. The director of the laboratory whose name appears on the certification shall supervise all analytical work in his/her laboratory and all reports of such work submitted to the Regional Board shall be signed by a duly authorized representative of the laboratory.

All monitoring instruments and equipment shall be properly calibrated and maintained to ensure accuracy of measurements.

C. DEFINITION OF TERMS

1. A grab sample is a discrete sample collected at any time.
2. Receiving waters refers to any surface that actually or potentially receives surface or groundwaters that pass over, through, or under waste materials or contaminated soils. In this case the groundwater beneath and adjacent to the landfill areas, the surface runoff from the site, and the San Francisco Bay are considered receiving waters.

3. Standard observations refer to:
 - a. Receiving Waters
 - 1) Floating and suspended materials of waste origin: presence or absence, source, and size of affected area.
 - 2) Discoloration and turbidity: description of color, source, and size of affected area.
 - 3) Evidence of odors, presence or absence, characterization, source, and distance of travel from source.
 - 4) Evidence of beneficial use: presence of water associated wildlife.
 - 5) Flow rate
 - 6) Weather conditions: wind direction and estimated velocity, total precipitation during the previous five days and on the day of observation.
 - b. Perimeter of the waste management unit.
 - 1) Evidence of liquid leaving or entering the waste management unit, estimated size of affected area and flow rate. (Show affected area on map)
 - 2) Evidence of odors, presence or absence, characterization, source, and distance of travel from source.
 - 3) Evidence of erosion and/or daylighted refuse.
 - c. The waste management unit.
 - 1) Evidence of ponded water at any point on the waste management facility.
 - 2) Evidence of odors, presence or absence, characterization, source, and distance of travel from source.
 - 3) Evidence of erosion, slope or ground movement, and/or daylighted refuse.
 - 4) Adequacy of access road
 - 5) Condition of site drains, silt basin capacity
 - 6) Standard Analysis and measurements are listed on Table A (attached)

D. RECORDS TO BE MAINTAINED

Written reports shall be maintained by the Dischargers or laboratory, and shall be retained for a minimum of five years. This period of retention shall be extended during the course of any unresolved litigation regarding this discharge or when requested by the Board. Such records shall show the following for each sample:

1. Identity of samples and sample and observation station number.
2. Date and time of sampling and observations.
3. Date and time that sampling analyses are started and completed, and name of the personnel performing the analyses.
4. Complete procedure used, including method of preserving the samples, and the identity and volumes of reagents used.
5. Results of sampling analyses, and detection limits for each analysis.

F. REPORTS TO BE FILED WITH THE BOARD

A letter transmitting the essential points in each report should accompany each report. Such a letter shall include a discussion of any requirement violations found during the last report period, and actions taken or planned for correcting the violations. If the Dischargers have previously submitted a detailed time schedule for correcting requirement violations, a reference to the correspondence transmitting such schedule will be satisfactory. If no violations have occurred in the last report period this shall be stated in the letter of transmittal. Monitoring reports and the letter transmitting the monitoring reports shall be signed by a principal executive officer at the level of vice president or his duly authorized representative, if such representative is responsible for the overall operation of the facility from which the discharge originates. The letter shall contain a statement by the official, under penalty of perjury, that to the best of the signer's knowledge the report is true, complete, and correct.

1. ANNUAL REPORT

An annual report shall be filed by January 31 of each year. The reports shall include a compliance evaluation summary. The summary shall contain:

- 1) A summary and certification of completion of all standard observations for the waste management unit, the perimeter of the

waste management unit, and the receiving waters as described in Part B of the Discharge Monitoring Plan.

- 2) A map or aerial photograph shall accompany each report showing observation and monitoring station locations.
- 3) In the event that seepage or surface water sampling is conducted, the annual report shall include:
 - a. A graphic description of the velocity and direction of surface water, or seepage flow under/around the waste management unit.
 - b. The time of water sampling, results of field measurements of pH, temperature, and conductivity, water level and flow measurements, the type equipment and methods utilized.
 - c. Description of field and travel blanks; number and description of duplicate samples; type of sample containers and preservatives used, the date and time of sampling, the name and qualifications of the person actually taking the samples, and any other observations.
 - d. Laboratory statements with the results of analyses specified in Part B must be included in each report. The director of the laboratory whose name appears on the laboratory certification shall supervise all analytical work in his/her laboratory and all reports of such work submitted to the Board shall be signed by a duly authorized representative of the laboratory.
 - e. Confirmation that the methods of analyses and detection limits are appropriate for the expected concentrations. Specific methods of analyses must be identified. If methods other than EPA approved methods or Standard Methods are used, the exact methodology must be submitted for review and approved by the Executive Officer prior to use.
 - f. Laboratory quality assurance/quality control (QA/QC) information must be included in the monitoring report. The laboratory QA/QC information should include the method, equipment and analytical detection limits; the recovery rates; an explanation for any recovery rate that are outside laboratory control limits; the results of equipment and method blanks; the results of spiked and surrogate samples;

the frequency of quality control analysis; and the name and qualifications of the person(s) performing the analyses.

- 4) A proposal for corrective actions necessary to eliminate the source of water quality impacts identified and to remediate existing water quality impacts.
- 5) A description changes in site use from the previous year and a description of proposed changes to site use in the next year. Any proposed changes in site use shall specify activities or conditions at the site which may potentially affect or which may affect containment of landfill waste, landfill leachate, and water quality at or adjacent to the landfill. The report shall also specify measures necessary to prevent water quality impacts from changes in site activities or conditions..

2. CONTINGENCY REPORTING

A report shall be made by telephone of any seepage from the disposal area immediately after it is discovered. A written report shall be filed with the Board within five days thereafter. This report shall contain the following information:

- 1) a map showing the location(s) of discharge if any;
- 2) approximate flow rate;
- 3) nature of effects; i.e. all pertinent observations and analyses; and
- 4) corrective measures underway, proposed, or as specified in the Waste Discharge Requirements.

Part B

1. DESCRIPTION OF OBSERVATION STATIONS AND SCHEDULE OF OBSERVATIONS

A. ON-SITE OBSERVATIONS – Observe quarterly, report annually

<u>STATION</u>	<u>DESCRIPTION</u>	<u>OBSERVATIONS</u>	<u>FREQUENCY</u>
A-1 to A-'n'	Located on the area as delineated by a 500 foot grid network.	Standard observations for the waste management unit.	Quarterly
P-1 thru P-'n'	Located at equidistant intervals not exceeding 1000 feet around the perimeter of the waste management unit.	Standard observations for the perimeter.	Quarterly
S-1 thru S-'n'	At any point(s) at which seepage is found occurring from the disposal area	Standard test as outlined in Table A (perform analysis once per seep)	Daily until remedial action is taken and seepage ceases
San Francisco Bay	Bay waters adjacent to the landfill at point seepage is found flowing into the Bay	Standard test as outlined in Table A (perform analysis once per seep)	Daily until remedial action is taken and seepage ceases

C. FACILITIES MONITORING

The Dischargers shall inspect all facilities to ensure proper and safe operation once per quarter and report annually on January 31 of each year.

I, Loretta K. Barsamian, Executive Officer, hereby certify that the foregoing Self-Monitoring Program:

1. Has been developed in accordance with the procedures set forth in this Board's Resolution No. 73-16 in order to obtain data and document compliance with waste discharge requirements established in this Board's Order No. R2-2003-0055
2. Is effective on the date shown below.
3. May be reviewed or modified at any time subsequent to the effective date, upon written notice from the Executive Officer.


Loretta K. Barsamian
Executive Officer

Date Ordered: June 18, 2003

Attachment: Table A - Schedule for Sampling, Measurement, and Analysis
Figure 2 - Monitoring Locations

Table A - Discharge Monitoring Plan, List of Analytical Parameters In The Event of A Release

Parameters	Method*
pH	Field
pH	150.1
Chloride	300.0
Ammonia (un-ionized)	350.3
Nitrate as Nitrogen	353.2
COD	410.1
Electrical conductivity	Field
Electrical conductivity	120.1
Volatile Organic Compounds (8010 list)	8260
BTXE	8021
MTBE	8021
TPH as diesel	8015
Groundwater Elevation	Field
Arsenic	7060
Chromium	6010
Copper	6010
Lead	7421
Nickel	6010
Zinc	6010
Iron	6010
Phenols, total	420.1
Total Kjeldahl Nitrogen	351.4
Turbidity	Field

Notes:

- * Test methods per Methods for Chemical Analysis of Water and Waste, USEPA 600/4/79/029, revised March 1983, or Test Methods for Evaluating Solid Wastes: Physical/Chemical Methods, USEPA SW-846, 3rd edition, November 1986 and revisions.

